



# The El Paso Collaborative for Academic Excellence

## Strategies to Build Content Knowledge





## Use of Pedagogical Content Knowledge (PCK) Tools

The PCK tools are a series of short literature reviews and instructional guides focused on key math and science concepts. The tools engage teachers in the study of content to address common student learning misconceptions and provide strategies for responding to those misconceptions.





## Purpose of the PCK Tools

- Focus the discourse with teachers on how students learn while deepening the level of content knowledge.
- Connect teachers to the research literature on student learning in mathematics and science content.
- Offer instructional strategies to help teachers anticipate and address student misconceptions.
- Address teachers' varied content needs by focusing on instructional approaches for the most challenging math and science concepts, especially the most common student learning problems.
- Provide teacher leaders with special content knowledge.



# Proportional Reasoning: Student Misconceptions and Strategies for Teaching





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## Using Tools to Scaffold the Work of Teacher Leaders

- PCK Tools will be available July 1 at [www.epcae.org](http://www.epcae.org)

